Amendments to the Specification:

Please replace the paragraph beginning on line 33 of page 3 with the following amended paragraph:

Two matrices are introduced: $\mathbf{V}$ is the ~~eignenvector~~ <u>eigenvector</u> matrix for $\mathbf{H^H H}$ and Λ is the eigenvalue matrix for $\mathbf{H^H H}$. Device 100 transmits the product $\mathbf{As}$, where the matrix $\mathbf{A}$ is the spatial multiplexing transmit matrix, where $\mathbf{A = VD}$. The matrix $\mathbf{D} = \text{diag}(d_1,...,d_L)$ where $|d_p|^2$ is the transmit power in p^{th} mode, or in other words, the power of the pth one of the L signals <u>where p = 1 to L</u>. Device 200 receives $\mathbf{HAs + n}$, and after maximal ratio combining for each of the modes, device 200 computes $\mathbf{c = A^H H^H HAs + A^H H^H n = D^H D \Lambda s + D^H V^H H^H n}$.